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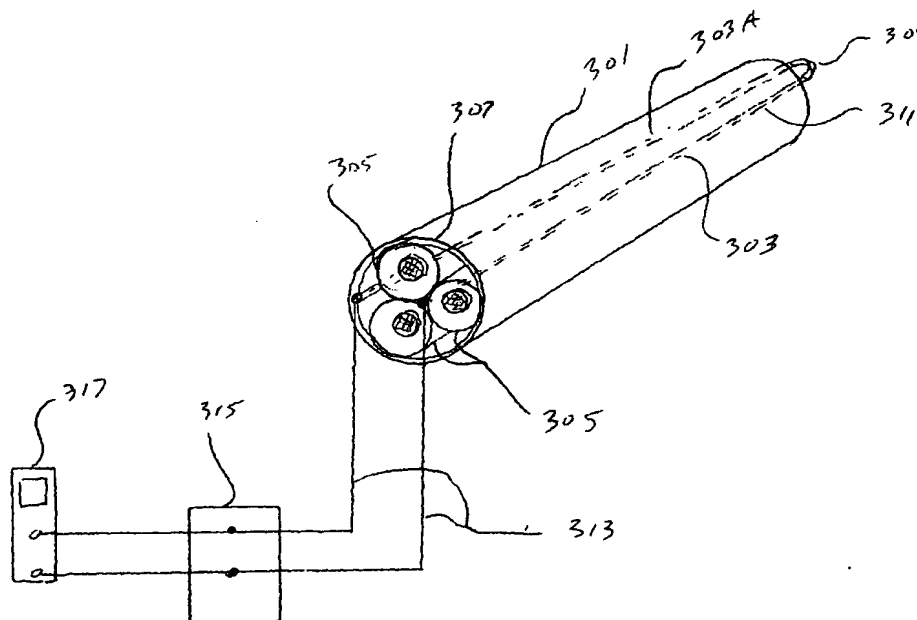
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- (71) Applicant (for all designated States except US): **BPW, INC.** [US/US]; 3690 Ryans Bluff Dr., Cumming, GA 30040 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **WATKINS, Kenneth S.** [US/US]; 372 River Dr., Dahlonega, GA 30533 (US). **MORRIS, Shelby, J.** [US/US]; 35 Curle Road, Hampton, VA 23669 (US). **MASAKOWSKI, Daniel D.** [US/US]; 7 Academy St., Worcester, MA 01609 (US).
- (74) Agent: **WATKINS, Kenneth S.**; 372 River Dr., Dahlonega, GA 30533 (US).
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(54) Title: AN ELECTRICAL CONDITION MONITORING METHOD FOR POLYMERS



(57) Abstract: An electrical condition monitoring method utilizes measurements of electrical resistivity of an age sensor (303) made of a conductive matrix or composite disposed in a polymeric structure such as an electrical cable (301). The conductive matrix comprises a base polymer and conductive filler. The method comprises a means for communicating the resistivity to a measuring instrument (317) as a means to correlate resistivity of the conductive matrix of the polymeric structure with resistivity of an accelerated-aged conductive composite.